2020-2021

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Agency: Sri.Byate Gowda S N, Contractor, Bangalore.

Name of Work Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

PROJECT MANAGEMENT CONSULTANTS

CIVIL AIM CONSULTANTS & ENGINEERS

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QC ABSTRACT

Nameof Work: Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	89.34 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	218.58 Cum	8	8	Concrete Cube Compressive Strength	-
3	Steel	13.11 Sqm	1	1	Concrete Blocks Compressive Strength	-
4	Slab (100mm)	484.20 Sqm	1	1	Concrete Core Compressive Strength	-
5	Slab (230mm)	84.00 Sqm	1	1	Concrete Core Compressive Strength	-
6	Kerb	196.00Nos	1	1	Concrete Core Compressive Strength	-

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

CIVIL CONSULTANTS & ENGINEERS Prajwal BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 25.11.2020

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		October - 2020
DATE OF TESTING		23.11.2020 to 25.11.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 25.11.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 25.11.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	132	13.20	21.60	78.4	75-100
1.18	188	18.80	40.40	59.6	55-90
600 Micron	156	15.60	56.00	44.0	35-59
300 Micron	225	22.50	78.50	21.5	8-30
150 Micron	158	15.80	94.30	5.7	0-10

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 25.11.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 25.11.2020

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	89	8.90	13.80	86.2	40-100
300 Micron	256	25.60	39.40	60.6	5-70
150 Micron	488	48.80	88.20	11.8	0-15

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 25.11.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor**,** Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 25.11.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	185	3.7	3.7	96.3	95-100
10	2365	47.3	51.0	49.0	25-55
4.75	1978	39.6	90.6	9.4	0-10

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 25.11.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Date of Testing : 25.11.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	156	1.04	1.04	98.96	95-100
20	8236	54.91	55.95	44.05	30-70
10	3265	21.77	77.71	22.29	10-35
4.75	2850	19.00	96.71	3.29	0-5

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date : 27.11.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of Work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 27.11.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	556	649	1.17	14
2	TMT	10	0.618	568	655	1.15	16
3	TMT	12	0.889	579	672	1.16	15.5

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 1, Cl 6.2

NOMINAL MASS AND TOLERANCES OF BARS

S.No	Nominal size (dia) (mm)	Mass per metre (kg/metre)	Tolerance on the nominal mass	
			Batch	Individual sample
1	4	0.099	± 7%	- 8%
2	5	0.154	± 7%	- 8%
3	6	0.222	± 7%	- 8%
4	8	0.395	± 7%	- 8%
5	10	0.617	± 7%	- 8%
6	12	0.888	± 5%	- 6%
7	16	1.58	± 5%	- 6%
8	20	2.47	± 3%	- 4%
9	25	3.85	± 3%	- 4%
10	32	6.31	± 3%	- 4%
11	36	7.99	± 3%	- 4%
12	40	9.86	± 3%	- 4%
13	45	12.49	± 3%	- 4%
14	50	15.42	± 3%	- 4%

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 3, Cl 8.1

MECHANICAL PROPERTIES OF HIGH STRENGTH DEFORMED BARS AND WIRES

High strength deformed bars -	0.20 % proof stress/ yield stress, Minimum (N/mm2)		TS/YS ratio, N/mm^2 TS:Tensile Strength YS:0.20 % proof stress/ yield stress	Elongation percent , Minimum, on gauge length
	Min	Max		
Fe 415	415		≥1.10, but TS not less than 485.0 N/mm^2	14.5
Fe 415D	415		≥1.12, but TS not less than 500.0 N/mm^2	18
Fe 415S	415	540	1.25	20
Fe 500	500		≥1.08, but TS not less than 545.0 N/mm^2	12
Fe 500D	500		≥1.10, but TS not less than 565.0 N/mm^2	16
Fe 500S	500	625	1.25	18
Fe 550	550		≥1.06, but TS not less than 585.0 N/mm^2	10
Fe 550 D	550		≥1.08, but TS not less than 600.0 N/mm^2	14.5
Fe 600	600		≥1.06, but TS not less than 660.0 N/mm^2	10

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 12.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.12.2020	12.12.2020	8.154	335.3	14.90
2	05.12.2020	12.12.2020	8.136	349.6	15.54
3	05.12.2020	12.12.2020	8.162	326.4	14.51

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 02.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.12.2020	02.01.2021	8.152	500.3	22.24
2	05.12.2020	02.01.2021	8.165	512.3	22.77
3	05.12.2020	02.01.2021	8.148	488.9	21.73

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.12.2020	12.12.2020	8.168	346.3	15.39
2	05.12.2020	12.12.2020	8.152	352.6	15.67
3	05.12.2020	12.12.2020	8.146	339.2	15.08

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 02.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.12.2020	02.01.2021	8.140	511.2	22.72
2	05.12.2020	02.01.2021	8.152	524.6	23.32
3	05.12.2020	02.01.2021	8.179	505.8	22.48

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 15.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.12.2020	15.12.2020	8.168	356.3	15.84
2	08.12.2020	15.12.2020	8.154	339.3	15.08
3	08.12.2020	15.12.2020	8.148	324.5	14.42

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 05.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.12.2020	05.01.2021	8.140	500.9	22.26
2	08.12.2020	05.01.2021	8.158	526.3	23.39
3	08.12.2020	05.01.2021	8.184	515.2	22.90

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 16.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.12.2020	16.12.2020	8.147	356.3	15.84
2	09.12.2020	16.12.2020	8.158	339.6	15.09
3	09.12.2020	16.12.2020	8.163	346.5	15.40

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 06.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.12.2020	06.01.2021	8.154	526.3	23.39
2	09.12.2020	06.01.2021	8.136	508.2	22.59
3	09.12.2020	06.01.2021	8.149	511.2	22.72

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 18.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	18.12.2020	8.148	356.3	15.84
2	11.12.2020	18.12.2020	8.136	336.3	14.95
3	11.12.2020	18.12.2020	8.164	362.5	16.11

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 08.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	08.01.2021	8.148	500.2	22.23
2	11.12.2020	08.01.2021	8.159	478.5	21.27
3	11.12.2020	08.01.2021	8.136	489.6	21.76

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	18.12.2020	8.162	356.3	15.84
2	11.12.2020	18.12.2020	8.135	339.6	15.09
3	11.12.2020	18.12.2020	8.149	324.2	14.41

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Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	08.01.2021	8.168	502.2	22.32
2	11.12.2020	08.01.2021	8.154	519.6	23.09
3	11.12.2020	08.01.2021	8.148	524.3	23.30

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	18.12.2020	8.148	322.6	14.34
2	11.12.2020	18.12.2020	8.165	346.5	15.40
3	11.12.2020	18.12.2020	8.138	352.8	15.68

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BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 08.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.12.2020	08.01.2021	8.184	512.2	22.76
2	11.12.2020	08.01.2021	8.156	482.6	21.45
3	11.12.2020	08.01.2021	8.164	505.2	22.45

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 21.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2020	21.12.2020	8.148	362.3	16.10
2	14.12.2020	21.12.2020	8.184	352.6	15.67
3	14.12.2020	21.12.2020	8.169	346.5	15.40

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 11.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Byate Gowda S N,** Contractor, Bangalore.

Name of the work : Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.

Sample ID : Cement Concrete - Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2020	11.01.2021	8.156	502.2	22.32
2	14.12.2020	11.01.2021	8.135	516.8	22.97
3	14.12.2020	11.01.2021	8.148	522.6	23.23

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21

Date: 22.12.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	22.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.392	2348.75	1.70	0.968	31.90	16.25	17.55	16.98	21.22
2	50.00	87.00	0.405	2370.86	1.74	0.972	32.60	16.60	17.93	17.43	21.78
3	50.00	89.00	0.421	2409.14	1.78	0.976	33.80	17.21	18.59	18.15	22.69

Note:

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Assistant Executive Engineer
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BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 22.12.2020

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	22.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	118.00	1.780	2371.17	1.31	0.926	115.20	18.11	19.56	18.10	22.63
2	90.00	120.00	1.824	2389.29	1.33	0.928	116.30	18.28	19.74	18.32	22.90
3	90.00	124.00	1.889	2394.61	1.38	0.933	118.20	18.58	20.07	18.72	23.40

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/BGSN/W.No.8/2020-21 Date: 23.12.2020

KERB STONE (CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Sri. Byate Gowda S N,** Contractor, Bangalore.
Name of Work	:	Improvements to Roads and Main and Cross Roads of Kodigehalli and surrounding areas in Ward No.8 Kodigehalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	23.12.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	70.00	0.321	2335.49	1.40	0.935	25.90	13.19	14.25	13.32	16.65
2	50.00	73.00	0.338	2358.11	1.46	0.942	26.30	13.39	14.47	13.62	17.03
3	50.00	75.00	0.352	2390.30	1.50	0.946	26.90	13.70	14.80	14.00	17.50

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30days from the date of testing.

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